

(1) 6/14/93

(2) 5/17/96

D HIS

(FILE 'USPAT' ENTERED AT 14:27:06 ON 23 JAN 1998)

L1 3691 S 707/CLAS  
L2 1226 S L1 AND LINK#  
L3 392 S L2 AND NODE  
L4 241 S L3 AND DISPLAY  
L5 29 S L4 AND CLUSTER  
L6 14 S L5 AND ANALYZ?

=> D 1-14

1. 5,659,766, Aug. 19, 1997, Method and apparatus for inferring the topical content of a document based upon its lexical content without supervision; Eric Saund, et al., 704/9; **707/500** :IMAGE AVAILABLE:

(2) 5,649,193, Jul. 15, 1997, Document detection system using detection result presentation for facilitating user's comprehension; Kazuo Sumita, et al., **707/103** :IMAGE AVAILABLE:

3. 5,586,314, Dec. 17, 1996, Graphic information modeling and icon-based intermediate text language generation; Thomas L. Hill, et al., **707/4**; 364/280.4, 282.1, 286, DIG.1 :IMAGE AVAILABLE:

(4) 5,546,517, Aug. 13, 1996, Apparatus for determining the structure of a hypermedia document using graph partitioning; Joseph W. Marks, et al., **707/501**; 345/357; 364/282.2, DIG.1 :IMAGE AVAILABLE:

(5) 5,495,605, Feb. 27, 1996, Method to help in optimizing a query from a relational data base management system, and resultant method of syntactical analysis; Michel Cadot, **707/4**; 345/356; 364/280.5, 282.1, 286.3, DIG.1 :IMAGE AVAILABLE:

6. 5,490,246, Feb. 6, 1996, Image generator using a graphical flow diagram with automatic generation of output windows; Daniel C. Brotsky, et al., 345/342; **707/500** :IMAGE AVAILABLE:

7. 5,418,888, May 23, 1995, System for revelance criteria management of actions and values in a rete network; John L. Alden, 395/64; 364/274, 274.2, DIG.1; 395/50, 52, 63; **707/1** :IMAGE AVAILABLE:

8. 5,386,558, Jan. 31, 1995, Method and apparatus for executing control system functions in a computer system; Craig L. Maudlin, et al., **707/104**; 364/274.2, 275.2, DIG.1; 395/10, 50, 904 :IMAGE AVAILABLE:

(9) 5,386,556, Jan. 31, 1995, Natural language **analyzing** apparatus and method; Erik B. Hedin, et al., **707/4**; 364/274.8, 285.4, DIG.1; 395/12, 934 :IMAGE AVAILABLE:

10. 5,301,350, Apr. 5, 1994, Real time storage/retrieval subsystem for document processing in banking operations; James D. Rogan, et al., 705/33; 364/225, 225.2, 225.3, 225.4, DIG.1; **707/104** :IMAGE AVAILABLE:

11. 5,287,453, Feb. 15, 1994, Fast remote file access facility for distributing file access requests in a closely coupled computer system; William F. Roberts, 395/200.31; 364/222.82, 228.3, 228.7, 228.8, 228.9, 229, 230, 230.4, 236.2, 237.2, 237.3, 238.3, 240, 240.1, 240.8, 241.9, 242.94, 242.96, 244, 244.3, 246.8, 248.1, 258, 258.1, 260, 260.1, 260.4,

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L7 801 S L1 AND ANALYZ?  
L8 153 S L7 AND GRAPH#  
L9 82 S L2 AND L8  
L10 40 S L3 AND L8  
L11 33 S L4 AND L8  
L12 8 S L5 AND L8  
L13 25 S L11 NOT (L12 OR L6)

=> D 1-25

1. 5,669,007, Sep. 16, 1997, Method and system for **analyzing** the logical structure of a document; Yuka Tateishi, **707/517, 513** :IMAGE AVAILABLE:

2. 5,644,686, Jul. 1, 1997, Expert system and method employing hierarchical knowledge base, and interactive multimedia/hypermedia applications; Amir Hekmatpour, 395/50, 62, 77; **707/501** :IMAGE AVAILABLE:

3. 5,630,120, May 13, 1997, Method to help in optimizing a query from a relational data base management system; Eric Vachey, **707/2; 345/340, 348, 356; 364/280.5, 282.1, 286.3**, DIG.1 :IMAGE AVAILABLE:

4. 5,625,814, Apr. 29, 1997, Method and apparatus for processing natural language with a hierarchy of mapping routines; William W. Luciw, **707/5; 364/282.1**, DIG.1 :IMAGE AVAILABLE:

5. 5,608,907, Mar. 4, 1997, Extensible entity management system including an information manager for obtaining, storing and retrieving information from entities; Leonard G. Fehskens, et al., 395/672; 364/229.5, 242.94, 282.1, 284.1, 286, DIG.1; **707/1** :IMAGE AVAILABLE:

6. 5,608,624, Mar. 4, 1997, Method and apparatus for processing natural language; William W. Luciw, **707/532; 395/10, 12, 51, 54, 60, 62; 704/9** :IMAGE AVAILABLE:

7. 5,603,021, Feb. 11, 1997, Methods for composing formulas in an electronic spreadsheet system; Percy L. Spencer, et al., **707/4; 345/326** :IMAGE AVAILABLE:

8. 5,586,311, Dec. 17, 1996, Object oriented data access and analysis system; Kathleen M. Davies, et al., **707/1; 345/326; 364/974.6**, DIG.2 :IMAGE AVAILABLE:

9. 5,555,408, Sep. 10, 1996, Knowledge based information retrieval system; Hiromichi Fujisawa, et al., **707/5** :IMAGE AVAILABLE:

10. 5,550,971, Aug. 27, 1996, Method and system for generating a user interface adaptable to various database management systems; Hans Brunner, et al., **707/3; 345/356** :IMAGE AVAILABLE:



11. 5,537,590, Jul. 1996, Apparatus for applying analysis rules to data sets in a relational database to generate a database of diagnostic records linked to the data sets; Armando Amado, 707/2; 364/225, 274.2, 283.4, 286.3, DIG.1; 395/50, 51, 52 :IMAGE AVAILABLE:

12. 5,526,475, Jun. 11, 1996, Method for live symbolic calculations in a mathematical document editor; Allen M. Razdow, 707/538; 364/732, 733, 736.01 :IMAGE AVAILABLE:

13. 5,523,942, Jun. 4, 1996, Design grid for inputting insurance and investment product information in a computer system; Max C. Tyler, et al., 705/4; 707/507 :IMAGE AVAILABLE:

14. 5,475,838, Dec. 12, 1995, Extensible entity management system including rule-based alarms; Leonard G. Fehskens, et al., 395/185.1; 364/229, 232.7, 242.95, 284.4, 285, DIG.1; 395/54, 200.53; 707/200 :IMAGE AVAILABLE:

15. 5,471,611, Nov. 28, 1995, Computerised information-retrieval database systems; Douglas R. McGregor, 707/4; 395/51 :IMAGE AVAILABLE: 10964

16. 5,469,538, Nov. 21, 1995, Mathematical document editor and method performing live symbolic calculations for use with an electronic book; Allen M. Razdow, 345/440; 707/501 :IMAGE AVAILABLE:

17. 5,440,481, Aug. 8, 1995, System and method for database tomography; Ronald N. Kostoff, et al., 707/5 :IMAGE AVAILABLE:

18. 5,404,506, Apr. 4, 1995, Knowledge based information retrieval system; Hiromichi Fujisawa, et al., 707/4; 364/963, 974.6, 975, DIG.2; 395/12 :IMAGE AVAILABLE:

19. 5,341,469, Aug. 23, 1994, Structured text system; Wayne Rossberg, et al., 707/514 :IMAGE AVAILABLE:

20. 5,303,367, Apr. 12, 1994, Computer driven systems and methods for managing data which use two generic data elements and a single ordered file; Richard B. Leenstra, Sr., et al., 707/102; 364/222.81, 282.1, 283.1, DIG.1 :IMAGE AVAILABLE:

21. 5,287,493, Feb. 15, 1994, Database interactive prompted query system having named database tables linked together by a user through join statements; Thomas W. Jacopi, 707/4; 364/251.5, 251.6, 254.6, 282.1, 282.3, 283.1, 283.3, 283.4, DIG.1 :IMAGE AVAILABLE:

22. 5,283,894, Feb. 1, 1994, Lockless concurrent B-tree index meta access method for cached nodes; Roger L. Deran, 707/1; 364/222.81, 222.82, 237.2, 240.8, 242.3, 242.94, 242.95, 243.4, 243.41, 251, 251.6, 252, 255.1, 255.3, 270.5, 282.1, 282.4, 283.3, 283.4, DIG.1 :IMAGE AVAILABLE:

23. 5,202,985, Apr. 13, 1993, Apparatus and method for displaying data communication network configuration after searching the network; Pradeumn K. Goyal, 707/4; 364/242.94, 242.96, 282.1, 283.4, 927.2, 927.94, 927.95, 929, 940, 940.61, 940.64, 940.8, 942.06, 943.9, 962, 963, 974, 974.1, 974.2, 974.4, 974.5, 974.6, DIG.1, DIG.2; 395/200.54 :IMAGE AVAILABLE:

24. 5,010,478, Apr. 23, 1991, Entity-attribute value database system with inverse attribute for selectively relating two different entities; Roger L. Deran, 707/100; 364/222.81, 222.82, 236.8, 237.2, 237.5, 243, 243.41, 246, 246.4, 251, 251.6, 252.3, 252.4, 253, 253.1, 253.2, 274, 274.1, 274.8, 280, 280.7, 281, 281.3, 281.6, 282.1, 283.1, 283.3,

DIG.1 :IMAGE AVAILABLE:

25. 4,558,413, Dec. 10, 1985, Software version management system; Eric E. Schmidt, et al., **707/203**; 364/221, 221.2, 222.81, 222.82, 228.3, 229, 229.2, 236.2, 242.94, 242.95, 243, 243.4, 243.41, 248.1, 262.4, 274, 274.1, 275.1, 276.1, 280, 280.4, 280.6, 280.7, 282.1, 286, 973, DIG.1; 395/705, 712 :IMAGE AVAILABLE:

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6. 5,301,350, Apr. 5, 1994, Real time storage/retrieval subsystem for document processing in banking operations; James D. Rogan, et al., 705/33; 364/225, 225.2, 225.3, 225.4, DIG.1; **707/104** :IMAGE AVAILABLE:
7. 5,170,466, Dec. 8, 1992, Storage/retrieval system for document; James D. Rogan, et al., **707/530** :IMAGE AVAILABLE:
8. 4,868,733, Sep. 19, 1989, Document filing system with knowledge-base network of concept interconnected by generic, subsumption, and superclass relations; Hiromichi Fujisawa, et al., **707/5**; 364/274, 274.1, 274.2,

264, 271, 280, 281.3, 281.5, 282.1, 284, 284.3, 284.4, DIG.1; 395/200.82;  
**707/200 :IMAGE AVAILABLE:**

12. 5,170,466, Dec. 8, 1992, Storage/retrieval system for document;  
James D. Rogan, et al., **707/530 :IMAGE AVAILABLE:**

13. 4,989,132, Jan. 29, 1991, Object-oriented, logic, and database  
programming tool with garbage collection; Fredric H. Mellender, et al.,  
395/705; 364/274, 274.1, 280, 280.4, 281.1, 282.1, DIG.1; 395/76, 704;  
**707/103 :IMAGE AVAILABLE:**

14. 4,868,733, Sep. 19, 1989, Document filing system with knowledge-base  
network of concept interconnected by generic, subsumption, and superclass  
relations; Hiromichi Fujisawa, et al., **707/5; 364/274, 274.1, 274.2,**  
274.3, 282.1, 283.1, DIG.1; 395/1, 62 :IMAGE AVAILABLE:

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